

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/585,458	07/07/2006	Masamichi Nogami	292345US2PCT	5951	
22859 7599 12224/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER		
			TRAN, DZUNG D		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			2613		
			NOTIFICATION DATE	DELIVERY MODE	
			12/24/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) NOGAMI ET AL. 10/585,458 Office Action Summary Examiner Art Unit

		Dzung D. Tran	2613			
	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	correspondence ac	ldress		
A SH WHIC - Exter after - If NC - Failu Any	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extractions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SN(6) MONTHS from the mailing date of the communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SN (6) MONTHS from the mailing date of this communication. - Failure to reply which the set or extended period for reply will by stattles, cause the application to become ARADVONED (38 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patient term adjustemes. See 37 CFR 1.746(b).					
Status						
2a)□	Responsive to communication(s) filed on $\underline{07}$ July This action is FINAL. 2b) \boxtimes This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		e merits is		
Dispositi	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>6-10</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>6 and 10</u> is/are rejected. Claim(s) <u>7-9</u> is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	ion Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed onis/are: a) acc Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examiner.	epted or b) objected to by the lidrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C			
Priority ι	ınder 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage		
Attachmen	* *					
1) 🔀 Notic	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			

1) 🛚	Notice of References Cited (PTO-892)
2) 🔲	Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SE/08) Paper No(s)/Mail Date _____

Paper No(s)/Mail Date. ___

5) Notice of Informal Patent Application 6) Other: ____

Page 2

Application/Control Number: 10/585,458

Art Unit: 2613

DETAILED ACTION

Specification

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kogure et al. US Publication no. 2001/0019441 in view of Takeyari US Patent no. 5,844,445.

Regarding claims 6 and 10, Kogure discloses in Figures 3, 5, 11, a method/apparatus of an optical receiver comprising:

a pre-amplifying unit 2 that performs voltage conversion and amplification of an output of a light-receiving element that receives a light signal and converts the received light signal into a current signal: and

a regenerating unit (i.e., a circuit after the Pre-amplifier 2) including a discriminating circuit 9 that receives an output signal of the pre-amplifying unit 2 as an input signal and performs a signal discrimination of the input signal based on a threshold generated based on the input signal, wherein the regenerating unit further includes a second average detecting circuit that detects an average of input signals to the discriminating circuit, and the discriminating circuit receives an output of the second

Application/Control Number: 10/585,458

Art Unit: 2613

average detecting circuit as the threshold for signal discrimination of the input signal (Figure 5, 11; paragraphs 0073-0076).

Kogure does not specifically disclose wherein the pre-amplifying unit includes a first average detecting circuit that detects an average of output signals of the pre-amplifying unit, and controls an amplification gain based on a result of comparison between an output of the first average detecting circuit and a predetermined reference voltage.

Takeyari discloses a feedback type Pre-amplifier in an optical receiver wherein the pre-amplifying unit includes a first average detecting circuit that detects an average of output signals of the pre-amplifying unit, and controls an amplification gain based on a result of comparison between an output of the first average detecting circuit and a predetermined reference voltage (Figure 5; col. 5, lines 33-65).

At the time of the invention was made, it would have been obvious to an artisan to replace the Pre-amplifier 2 of Kogure with the Pre-amplifier taught by Takeyari. One of ordinary skill in the art would have been motivated to do that in order for the Pre-amplifier operates as an ordinary high transfer impedance low noise Pre-amplifier (col. 5, lines 60-62 of Takeyari).

Application/Control Number: 10/585,458 Page 4

Art Unit: 2613

Allowable Subject Matter

 Claims 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Ide U.S. Patent no. 6,169,619. Apparatus and method for reception of Optical signal
- Ide U.S. Publication no. 2002/0153958. Signal amplifier and optical signal receiver
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung D Tran whose telephone number is (571) 272-3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published Art Unit: 2613

applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Dzung Tran

12/11/2008

/Dzung D Tran/

Primary Examiner, Art Unit 2613